# **Detailed Specifications & Technical Data**

# **ENGLISH MEASUREMENT VERSION**



# 1671J Coax - 50 Ohm Microwave Cable

For more Information please call

1-800-Belden1



# **Description:**

RG-405/U type, 24 AWG solid .020" silver-plated copper-covered steel conductor, TFE Teflon® insulation, copper-tin composite shield (100% coverage), PVC jacket.

1

# **Physical Characteristics (Overall)**

#### Conductor

#### AWG:

# Coax	AWG	Stranding	Conductor Material	Dia. (in.)
1	24	Solid	SPCCS - Silver Plated Copper Covered Steel	.020

Total Number of Conductors:

#### Insulation

#### **Insulation Material:**

Insulation Trade Name	Insulation Material	Dia. (in.)
Teflon®	TFE - Tetrafluoroethylene	.062

#### **Outer Shield**

#### **Outer Shield Material:**

Layer #	Type	Outer Shield Material	Coverage (%)
1	Tape	Copper Foil	100
2	Braid	Tin-Filled Composite	100

# **Outer Jacket**

# Outer Jacket Material:

# Outer Jacket Material PVC - Polyvinyl Chloride

#### **Overall Cable**

Overall Nominal Diameter: 0.127 in.

# **Mechanical Characteristics (Overall)**

Operating Temperature Range:	-40°C To +105°C
UL Temperature Rating:	105°C (UL AWM Style 10245)
Non-UL Temperature Rating:	105°C
Bulk Cable Weight:	16 lbs/1000 ft.
Max. Recommended Pulling Tension:	26 lbs.
Min. Bend Radius/Minor Axis:	0.120 in.
Min. Bend Radius (Continuous Flexing):	0.370 in.
Min. Bend Radius (Overall):	1.250 in.

# **Applicable Specifications and Agency Compliance (Overall)**

# **Applicable Standards & Environmental Programs**

AWM Specification:	UL Style 10245 (30 V 105°C)
EU CE Mark:	No
EU Directive 2000/53/EC (ELV):	Yes

Page 1 of 3 09-04-2012

# **Detailed Specifications & Technical Data**





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EU Directive 2002/95/EC (RoHS):	Yes
EU RoHS Compliance Date (mm/dd/yyyy):	01/01/2005
EU Directive 2002/96/EC (WEEE):	Yes
EU Directive 2003/11/EC (BFR):	Yes
CA Prop 65 (CJ for Wire & Cable):	Yes
MII Order #39 (China RoHS):	Yes
RG Type:	405/U
Flame Test	
Other Flame Test:	Horizontal Wire
Suitability	
Suitability - Indoor:	Yes
Suitability - Outdoor:	Yes
Plenum/Non-Plenum	
Plenum (Y/N):	No

# **Electrical Characteristics (Overall)**

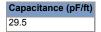
Nom. Characteristic Impedance:



Nom. Inductance:



Nom. Capacitance Conductor to Shield:



Nominal Velocity of Propagation:



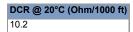
**Nominal Delay:** 



Nom. Conductor DC Resistance:



Nominal Outer Shield DC Resistance:



Maximum VSWR:

Freq. (MHz)	Max. VSWR
500	1.1:1
20000	1.3:1

Nom. Attenuation:

Freq. (MHz)	Attenuation (dB/100 ft.)
500	15.0
1000	22.2
2000	32.8
3000	41.2
5000	54.9
7000	66.4
10000	81.2
15000	102

Page 2 of 3 09-04-2012

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18000	113	
20000	120	

#### Max. Power Rating:

Freq. (MHz)	Rating (W)
500	180
1000	119
2000	79
3000	62
5000	46
7000	37
10000	30
15000	24
18000	21
20000	20

# Max. Operating Voltage - UL:

Voltage
30 V RMS (UL AWM Style 10245)

# Max. Operating Voltage - Non-UL:

Voltage
1500 V RMS

## Misc. Information (Overall)

# **Notes (Overall)**

Notes: US Patents 4, 694, 122 & 5, 293, 001. Patent held in the U.S., Singapore, Australia, Germany, France, and England. Patent pending in Japan. Teflon® is a registered trademark of E. I. duPont de Nemours and Co. used under license by Belden, Inc.

# **Put Ups and Colors:**

Item #	Putup	Ship Weight	Color	Notes	Item Desc
1671J 010100	100 FT	2.400 LB	BLACK		#24 TFE BRD TINNED COAX PVC
1671J 0101000	1,000 FT	17.000 LB	BLACK	V	#24 TFE BRD TINNED COAX PVC
1671J 010500	500 FT	9.500 LB	BLACK	V	#24 TFE BRD TINNED COAX PVC

## Notes:

V = 250' PUT-UP EXACT LENGTH MAXIMUM OF 3 PIECESMINIMUM LENGTH 50'500' PUT-UP EXACT LENGTH MAXIMUM OF 5 PIECESMINIMUM LENGTH 50'

Revision Number: 3 Revision Date: 08-14-2012

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